

CLAIMS

1. A fragrance or flavor composition comprising a fragrance effective amount of a fragrance compound, a flavor effective amount of a flavor compound or mixture thereof and an amount of a natural antioxidant that is substantially inert with respect to said fragrance compound, flavor compound or mixture thereof in an amount sufficient to substantially stabilize said fragrance or flavor composition against color-degradation.
2. The composition of claim 1 wherein said natural antioxidant is an extract of a member of the family Labiatae or an active antioxidant ingredient thereof.
3. The composition of claim 2 wherein said Labiatae family member is rosemary.
4. The composition of claim 3 wherein said antioxidant ingredient of said rosemary extract is carnosic acid, carnasol, rosmanol, rosmadial, rosmarinic acid or mixtures thereof.
5. The composition of claim 1 wherein said fragrance compound, flavor compound or mixture thereof is citral, p-cymene, borneol, cinnamic alcohol, cinnamic aldehyde, dimethyl benzyl carbinol, 1-menthol, fenchyl alcohol, phenyl ethyl alcohol, o-tert-butyl cyclohexanol, 2-sec-butyl cyclohexanol, lauryl alcohol, 2-methyl undecanol, hexyl alcohol, citronellol, dihydro myrcenol, iso-amyl alcohol, tetrahydro linalool, dipropylene glycol, hexylene glycol, p-tert-butyl cyclohexanol, phenyl hexanol, 3,3,5-trimethyl hexanol, cis-trimethyl cyclohexanol, trans-2-hexanol, bornyl methoxy cyclohexanol, ethylene

tridecane dioate, amyl salicylate, dimethyl benzyl carbinyl acetate, fenchyl acetate, n-hexyl salicylate, iso-bornyl acetate, o-tert-butyl cyclohexyl acetate, p-tert-butyl cyclohexyl acetate, phenyl ethyl acetate, tricyclodecanyl acetate, styrallyl acetate, methyl salicylate, allylamyl glycolate, allyl capronate, ethyl capronate, ethyl cinnamate, geranyl acetate, n-hexyl acetate, iso-amyl acetate, iso-nonyl acetate, triethyl citrate, rosenphenene, dihydro mycenyl acetate, butyl-2-methyl varerate, trans-2-hexenyl acetate, dl-camphor, coumarin, pentyl cyclopentanone, iso-menthone, p-hydroxy phenyl butanone, 6-acetyl-1,1,3,4,4,6-hexamethyl tetrahydronaphthalene, ionone, p-tert-butyl cyclohexanone, o-tert-butyl cyclohexanone, 1-(2,6,6-trimethyl-1,3-cyclohexadiene-1-yl)-2-butene-1-one(Damascone), 1-(2,6,6-trimethyl-2-cyclohexene 1-yl)-2-butene-1-one(Damascone .alpha.), 1-(2,6,6-trimethyl-1-cyclohexene-1-yl)-2-butene-1-one(Damascone .beta.), 1-(2,6,6-trimethyl-3-cyclohexene-1-yl)-2-butene-1-one (Delta Damascone), Dihydro Floriffone TD), p-mentha-8-thiol-3-one, gamma-undecalactone, phenyl acetaldehyde dimethylacetal, octyl aldehyde, citronellal, methyl nonyl acetaldehyde, diphenyl oxide, phenyl ethyl isoamyl ether, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-cyclopenta-.gamma.-2-benzopyra n (Galaxolide), eucalyptus oil, lavender oil, lime oil, lemon oil, tangerine oil, orange oil, grapefruit oil, pineneedle oil, peppermint oil, rosemary oil, spearmint oil, d'limonene, benzaldehyde, gamma nonalactone, lactones(in general), ethyl-2-methyl butyrate, alcohols, esters of citronellol, geraniol, nerol or mixtures thereof.

6. A method for stabilizing a fragrance or flavor composition against color-degradation, said fragrance or flavor composition comprising a fragrance effective amount of a fragrance compound, a flavor effective amount of a flavor compound or mixture thereof, said method comprising the step of incorporating a stabilizing amount of a natural antioxidant in said composition.

7. The method of claim 6 wherein said natural antioxidant is an extract of a member of the family Labiatae or an active antioxidant ingredient thereof.

8. The method of claim 7 wherein said Labiatae family member is rosemary.

9. The method of claim 8 wherein said antioxidant ingredient of said rosemary extract is carnosic acid, carnosol, rosmanol, rosmadial, rosmarinic acid or mixtures thereof.

10. The method of claim 6 wherein said fragrance compound or mixture thereof is citral, p-cymene, borneol, cinnamic alcohol, cinnamic aldehyde, dimethyl benzyl carbinol, 1-menthol, fenchyl alcohol, phenyl ethyl alcohol, o-tert-butyl cyclohexanol, 2-sec-butyl cyclohexanol, lauryl alcohol, 2-methyl undecanol, hexyl alcohol, citronellol, dihydro myrcenol, iso-amyl alcohol, tetrahydro linalool, dipropylene glycol, hexylene glycol, p-tert-butyl cyclohexanol, phenyl hexanol, 3,3,5-trimethyl hexanol, cis-trimethyl cyclohexanol, trans-2-hexanol, bornyl methoxy cyclohexanol, ethylene tridecane dioate, amyl salicylate, dimethyl benzyl carbinal acetate, fenchyl acetate, n-hexyl salicylate, iso-bornyl acetate, o-tert-butyl cyclohexyl acetate, p-tert-butyl cyclohexyl acetate, phenyl ethyl acetate, tricyclodecanyl acetate, styrallyl acetate, methyl salicylate, allylamyl glycolate, allyl capronate, ethyl capronate, ethyl cinnamate, geranyl acetate, n-hexyl acetate, iso-amyl acetate, iso-nonyl acetate, triethyl citrate, rosenphenene, dihydro mycenyl acetate, butyl-2-methyl varerate, trans-2-hexenyl acetate, dl-camphor, coumarin, pentyl cyclopentanone, iso-menthone, p-hydroxy phenyl butanone, 6-acetyl-1,1,3,4,4,6-hexamethyl tetrahydronaphthalene, ionone, p-tert-butyl cyclohexanone, o-tert-butyl cyclohexanone, 1-(2,6,6-trimethyl-1,3-cyclohexadiene-1-yl)-2-butene-1-one(Damascenone), 1-(2,6,6-trimethyl-

2-cyclohexene 1-yl)-2-butene-1-one(Damascone .alpha.), 1-(2,6,6-trimethyl-1-cyclohexene-1-yl)-2-butene-1-one(Damascone .beta.), 1-(2,6,6-trimethyl-3-cyclohexene-1-yl)-2-butene-1-one (Delta Damascone), Dihydro Floriffone TD), p-mentha-8-thiol-3-one, gamma.-undecalactone, phenyl acetaldehyde dimethylacetal, octyl aldehyde, citronellal, methyl nonyl acetaldehyde, diphenyl oxide, phenyl ethyl isoamyl ether, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-cyclopenta-.gamma.-2-benzopyra n (Galaxolide), eucalyptus oil, lavender oil, lime oil, lemon oil, tangerine oil, orange oil, grapefruit oil, pineneedle oil, peppermint oil, rosemary oil, spearmint oil, d'limonene, benzaldehyde, gamma nonalactone, lactones(in general), ethyl-2-methyl butyrate, alcohols, esters of citronellol, geraniol, nerol or mixtures thereof, benzaldehyde or mixtures thereof.

11. A method of using a fragrance or flavor composition, said fragrance or flavor composition comprising a fragrance effective amount of a fragrance compound, a flavor effective amount of a flavor compound or mixture thereof and an amount of a natural antioxidant that is substantially inert with respect to said fragrance compound, flavor compound or mixture thereof in an amount sufficient to substantially stabilize said fragrance or flavor composition against color degradation, comprising forming a composition containing an effective amount of said composition with a suitable carrier.

12. The method of claim 11 wherein said natural antioxidant is an extract of a member of the family Labiatae or an active antioxidant ingredient thereof.

13. The method of claim 12 wherein said Labiatae family member is rosemary.

14. The method of claim 13 wherein said antioxidant ingredient of said rosemary extract is carnosic acid, carnosol, rosmanol, rosmadial, rosmarinic acid or mixtures thereof.

15. The method of claim 11 wherein said fragrance compound or mixture thereof is citral, p-cymene, borneol, cinnamic alcohol, cinnamic aldehyde, dimethyl benzyl carbinol, 1-menthol, fenchyl alcohol, phenyl ethyl alcohol, o-tert-butyl cyclohexanol, 2-sec-butyl cyclohexanol, lauryl alcohol, 2-methyl undecanol, hexyl alcohol, citronellol, dihydro myrcenol, iso-amyl alcohol, tetrahydro linalool, dipropylene glycol, hexylene glycol, p-tert-butyl cyclohexanol, phenyl hexanol, 3,3,5-trimethyl hexanol, cis-trimethyl cyclohexanol, trans-2-hexanol, bornyl methoxy cyclohexanol, ethylene tridecane dioate, amyl salicylate, dimethyl benzyl carbonyl acetate, fenchyl acetate, n-hexyl salicylate, iso-bornyl acetate, o-tert-butyl cyclohexyl acetate, p-tert-butyl cyclohexyl acetate, phenyl ethyl acetate, tricyclodecyl acetate, styrallyl acetate, methyl salicylate, allylamyl glycolate, allyl capronate, ethyl capronate, ethyl cinnamate, geranyl acetate, n-hexyl acetate, iso-amyl acetate, iso-nonyl acetate, triethyl citrate, rosephenene, dihydro mycenyl acetate, butyl-2-methyl varerate, trans-2-hexenyl acetate, dl-camphor, coumarin, pentyl cyclopentanone, isomenthone, p-hydroxy phenyl butanone, 6-acetyl-1,1,3,4,4,6-hexamethyl tetrahydronaphthalene, ionone, p-tert-butyl cyclohexanone, o-tert-butyl cyclohexanone, 1-(2,6,6-trimethyl-1,3-cyclohexadiene-1-yl)-2-butene-1-one(Damascenone), 1-(2,6,6-trimethyl-2-cyclohexene 1-yl)-2-butene-1-one(Damascone .alpha.), 1-(2,6,6-trimethyl-1-cyclohexene-1-yl)-2-butene-1-one(Damascone .beta.), 1-(2,6,6-trimethyl-3-cyclohexene-1-yl)-2-butene-1-one (Delta Damascone), Dihydro Floriffone TD), p-mentha-8-thiol-3-one, gamma.-undecalactone, phenyl acetaldehyde dimethylacetal, octyl aldehyde, citronellal, methyl nonyl acetaldehyde, diphenyl oxide, phenyl ethyl isoamyl ether, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-cyclopenta-.gamma.-2-benzopyran (Galaxolide), eucalyptus oil, lavender oil,

lime oil, lemon oil, tangerine oil, orange oil, grapefruit oil, pineneedle oil, peppermint oil, rosemary oil, spearmint oil, d'limonene, benzaldehyde, gamma nonalactone, lactones(in general), ethyl-2-methyl butyrate, alcohols, esters of citronellol, geraniol, nerol or mixtures thereof.

16. The method of claim 11 wherein said carrier is a food, cosmetic product, prepared food, meat, seasoning or flavoring blend.

17. An article of manufacture comprising a carrier having a fragrance or flavor composition incorporated therein wherein said fragrance or flavor composition comprises a fragrance effective amount of a fragrance compound, a flavor effective amount of a flavor compound or mixture thereof and an amount of a natural antioxidant that is substantially inert with respect to said fragrance compound, flavor compound or mixture thereof in an amount sufficient to substantially stabilize said fragrance or flavor composition against color degradation.

18. The article of manufacture of claim 17 wherein said natural antioxidant is an extract of a member of the family Labiatae or an active antioxidant ingredient thereof.

19. The article of manufacture of claim 18 wherein said Labiatae family member is rosemary.

20. The article of manufacture of claim 19 wherein said antioxidant ingredient of said rosemary extract is carnosic acid, carnosol, rosmanol, rosmadial, rosmarinic acid or mixtures thereof.

21. The article of manufacture of claim 17 wherein said fragrance compound or mixture thereof is citral, p-cymene, borneol, cinnamic alcohol, cinnamic aldehyde, dimethyl benzyl carbinol, 1-menthol, fenchyl alcohol, phenyl ethyl alcohol, o-tert-butyl cyclohexanol, 2-sec-butyl cyclohexanol, lauryl alcohol, 2-methyl undecanol, hexyl alcohol, citronellol, dihydro myrcenol, iso-amyl alcohol, tetrahydro linalool, dipropylene glycol, hexylene glycol, p-tert-butyl cyclohexanol, phenyl hexanol, 3,3,5-trimethyl hexanol, cis-trimethyl cyclohexanol, trans-2-hexanol, bornyl methoxy cyclohexanol, ethylene tridecane dioate, amyl salicylate, dimethyl benzyl carbonyl acetate, fenchyl acetate, n-hexyl salicylate, iso-bornyl acetate, o-tert-butyl cyclohexyl acetate, p-tert-butyl cyclohexyl acetate, phenyl ethyl acetate, tricyclodecyl acetate, styrallyl acetate, methyl salicylate, allylamyl glycolate, allyl capronate, ethyl capronate, ethyl cinnamate, geranyl acetate, n-hexyl acetate, iso-amyl acetate, iso-nonyl acetate, triethyl citrate, rosenphenene, dihydro mycenyl acetate, butyl-2-methyl varerate, trans-2-hexenyl acetate, dl-camphor, coumarin, pentyl cyclopentanone, isomenthone, p-hydroxy phenyl butanone, 6-acetyl-1,1,3,4,4,6-hexamethyl tetrahydronaphthalene, ionone, p-tert-butyl cyclohexanone, o-tert-butyl cyclohexanone, 1-(2,6,6-trimethyl-1,3-cyclohexadiene-1-yl)-2-butene-1-one(Damasconone), 1-(2,6,6-trimethyl-2-cyclohexene 1-yl)-2-butene-1-one(Damascone .alpha.), 1-(2,6,6-trimethyl-1-cyclohexene-1-yl)-2-butene-1-one(Damascone .beta.), 1-(2,6,6-trimethyl-3-cyclohexene-1-yl)-2-butene-1-one (Delta Damascone), Dihydro Floriffone TD), p-mentha-8-thiol-3-one, gamma-undecalactone, phenyl acetaldehyde dimethylacetal, octyl aldehyde, citronellal, methyl nonyl acetaldehyde, diphenyl oxide, phenyl ethyl isoamyl ether, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-cyclopenta-.gamma.-2-benzopyran (Galaxolide), eucalyptus oil, lavender oil, lime oil, lemon oil, tangerine oil, orange oil, grapefruit oil, pineneedle oil, peppermint oil, rosemary oil, spearmint oil, d'limonene, benzaldehyde, gamma nonalactone, lactones(in

general), ethyl-2-methyl butyrate, alcohols, esters of citronellol, geraniol, nerol or mixtures thereof.

22. The article of manufacture of claim 21 wherein said carrier is a food, cosmetic product, prepared food, meat, seasoning or flavoring blend.